General Specifications

YSS1000
Setting Software

YS1000 Series

GS 01B08K01-01E

■ GENERAL

The YSS1000 setting software (hereinafter referred to as the YSS1000) is package software to configure the functions of the YS1000 series (hereinafter referred to as the YS1000) devices. Writing and reading of parameters and user programs of the YS1000, and PID tuning and monitoring of user programs can be performed through the use of communication.

■ FEATURES

Parameter Setting Function:
A function to set parameters of the YS1000. Functions can be configured, and PID parameters, linearizer function table, scale, and constants can be set.

User Program Creation Function:
A function to create user programs of the YS1700. Programs can be created by selecting either function block programming or text programming.

Text programming enables programs to be created by describing operation commands in text format (Compatible with YS170). Function block programming enables user programs to be created by graphically linking modules.

Event Indicating Function:
A function to display a pop-up window with a message on the operation display of the YS1000 when an alarm is generated on the YS1000. This function is enabled by setting a parameter to trigger event indication and an indication message. (This function cannot be set on the YS1000.)

Japanese, English, and Chinese etc. fonts can be used to display event messages.

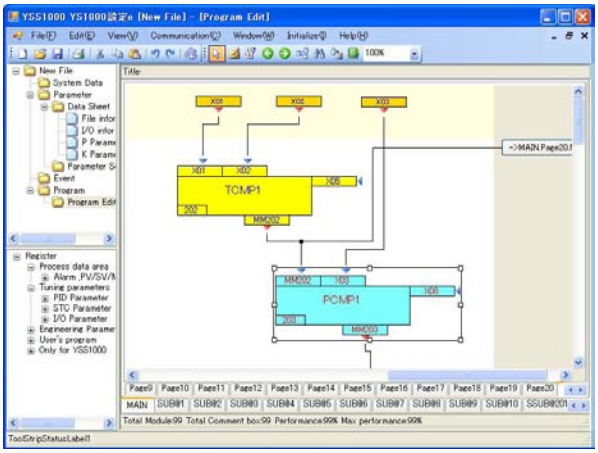
Communication Function:
Parameters and user programs can be written to the YS1000, and parameters and user programs stored in the YS1000 can be read out.

Note: Writing to the YS1000 can be performed only when the operation status is stop. (Reading can be performed without the need to stop operation.)

Tuning Function:
A function to adjust PID parameters of the YS1700 and YS1500 controllers. PID parameters can be set while viewing the PV, SV, and MV trend graphs through the use of communication.

User Program Monitoring Function:
Selected parameters can be monitored while communicating with the YS1700. When function block programming is selected, the input and output values of modules can be monitored on the function block screen.

File Management Function:
Set data such as parameters and user programs can be saved to a PC, and saved data can be read out from a PC.



Print Function:
Parameters and user programs can be printed with a printer connected to a PC.

YS100 Data Conversion Function :
A function to convert the data of the YS100 series to that of the YS1000. Parameters and user programs can be read out from the YS100 and converted to the data of the YS1000 (user programs are converted to text format). Furthermore, parameters and user programs created with the YSS10 and YSS20 program creation packages for the YS100 series can be converted to the data of the YS1000. Converted data can be manipulated as YSS1000 data; for example, edited, saved as files, printed, and written to the YS1000.

YS100 to YS1000 Data Conversion List
Data can be converted according to the conversion table below.

Model before Conversion (YS100 Series)	→	Model after Conversion (YS1000 Series)
YS170	→	YS1700
YS150	→	YS1500
YS131	→	YS1310
YS135	→	YS1350
YS136	→	YS1360

SLPC Data Conversion Function :
A function to convert the data of the SLPC to that of the YS1700. Parameters and user programs are read out from the user ROM of the SLPC and converted to the data of the YS1700 (user programs are converted to text format). Converted data can be manipulated as YSS1000 data; for example, edited, saved as files, printed, and written to the YS1700.

YOKOGAWA

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Check Support Function:
This function indicates check procedures for maintenance person by showing Check Operation Guide windows on the YSS1000 screen.

The check result can be recorded in the internal memory of the YS1000 series or saved in the PC. It can be printed on reported format.

Main check items

Input / output check(X,Y,DI,DO)

Display function check(LCD, LED, operation KEY)

Hard manual function check

Record of Model name, serial number, check date, checker

■ OPERATING ENVIRONMENT

OS:
Windows XP Professional (Service Pack 2 or later) 32bit
Windows Vista Business 32bit
Windows 7 Professional (32bit/64bit)
.NET Framework 2.0 is installed.

Supported Languages:
Languages that can be inputted in the comment and title fields

Japanese OS: English and Japanese
English OS: English
Chinese OS: Chinese and English

CPU:
Windows XP; Pentium4 processor, 2.4GHz or higher or CoreSolo Processor, 1.66GHz or higher recommended
Windows Vista/Windows 7; Pentium4 processor, 3.0GHz or higher or Core2Duo Processor, 1.8GHz or higher recommended

Main memory capacity:
Windows XP; 512MB or more
Windows Vista/Windows 7; 2GB or more

Hard Drive Capacity:
Package program storage: 100MB or more
.Net Framework2.0 program storage: 280MB or more

Display:
1024 x 768 pixels or more
Font: Small font
Color: 256 or more colors

CD Drive:
One (required for installation)

Printer:
Required for printing, support for letter or A4 size

Communication Specifications
Three connection methods available: USB connection (using a exclusive cable), RS485 connection, and Ethernet connection.

USB Connection
The USB port on a PC and the communication port inside the front panel of the YS1000 can be connected with a exclusive cable. (A1053UR)

PC specification: USB1.0

Ethernet Connection
The Ethernet port on a PC and the Ethernet port on the back panel of the YS1000 can be connected with an Ethernet cable.

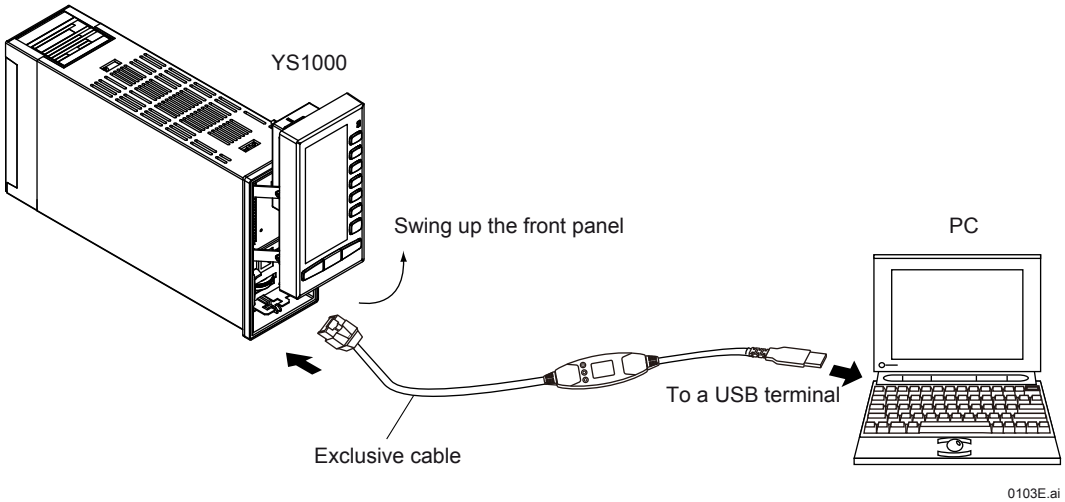
Specification: IEEE802.3 compliant
10BASE-T/100BASE-TX
RJ45 connector
For a connection via a hub: Straight cable
For a direct connection: Cross cable

RS485 Connection
RS485 communication is possible via the RS485 communication terminal on the back panel of the YS1000.

Specification: EIA RS485 compliant

■ CONNECTION METHODS

USB Connection
Connect the exclusive cable to the inside panel at the bottom of the front panel of the YS1000.



Note: The communication port inside the front panel of the YS1000 is incorporated into the YS1000 as standard.

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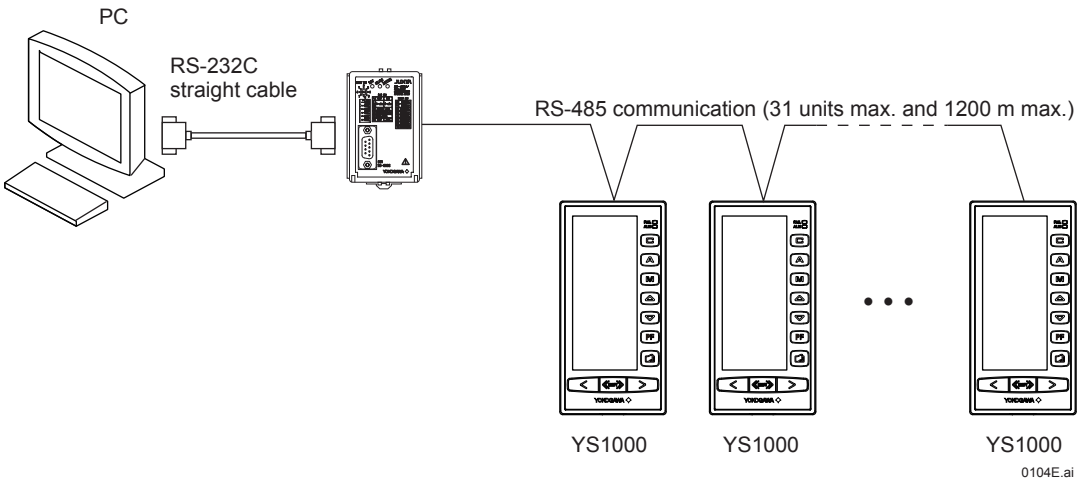
RS485 Connection

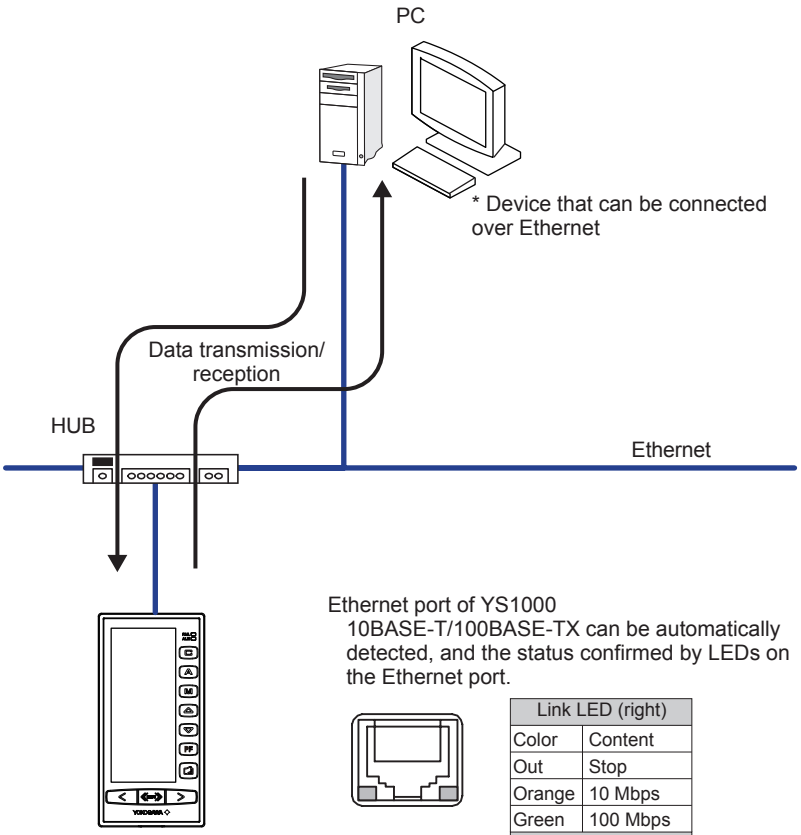
RS485 communication is possible via the RS485 communication terminal on the back panel of the YS1000.



Note: The RS485 option (/A31) is required for the YS1000.
Furthermore, an RS485 communication device is required for the PC. When using the RS232C port on the PC, we recommend Yokogawa's ML2 RS485/RS232C converter.

Ethernet Connection

The Ethernet port on the PC and the Ethernet port on the back panel of the YS1000 can be connected with an Ethernet cable.



Ethernet port of YS1000
10BASE-T/100BASE-TX can be automatically detected, and the status confirmed by LEDs on the Ethernet port.

Link LED (right)	
Color	Content
Out	Stop
Orange	10 Mbps
Green	100 Mbps
Active LED (left)	
Color	Content
Out	Stop
Orange	Half-duplex
Green	Full-duplex

Note: The Ethernet option (/A34) is required for the YS1000.

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■ SUPPORTED MODELS

The YSS1000 can be used for all of the following YS1000 series models.

✓ : Available

Supported Models	Parameter Setting	Event Indicating Setting	Tuning	User Program Creation & Monitoring
YS1700 Programmable Indicating controller	✓	✓	✓	✓
YS1500 Indicating controller	✓	✓	✓	N/A
YS1360 Manual setter for MV setting	✓	✓	N/A	N/A
YS1350 Manual setter for SV setting	✓	✓	N/A	N/A
YS1310 Indicator with alarm	✓	✓	N/A	N/A

■ MODEL & SUFFIX CODE

Model	Suffix Code		Description
YSS1000			Setting software (for the YS1000 series)
	-0		Always 0
		0	Always 0 (CD media plus exclusive cable included)

Package Contents:

Package distribution media: CD
Connection cable: Exclusive cable for YS1000 connection (A1053UR)
Manuals: Installation Manual (A4 paper), User's Manual (CD)

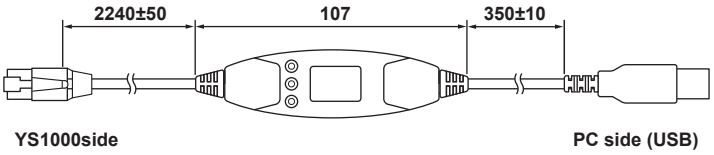
■ ITEMS TO BE SPECIFIED WHEN ORDERING

Model and suffix code.

YSS1000-00

■ Cable outline view

unit : mm



EMC Standards

EN55022
EN61326

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■ Operation confirmed ROM Writer

Product name : The universal programmer MODEL1882

Maker name: MINATO ELECTRONICS INC.

4105 Minami Yamada-cho Tsuzuki-ku, Yokohama, 224-0026 Japan

Phone: 81-45-592-5549

Fax: 81-45-592-2854

e-mail: int-support@minato.co.jp

URL:http://www.minato.co.jp

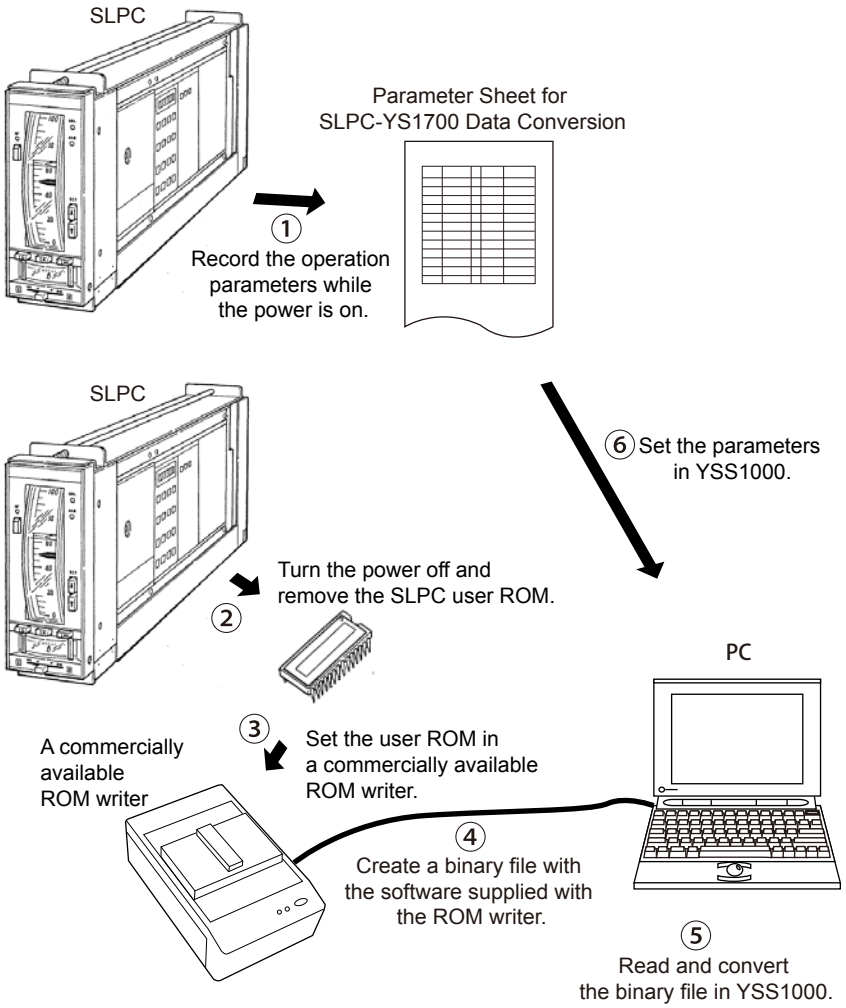
Distributors

http://www.minato.co.jp/company_info/distributors_e.html

Price: Open price

■ SLPC data exchange diagram

Overview of SLPC ROM Data Conversion


SLPC
Parameter Sheet for
SLPC-YS1700 Data Conversion
① Record the operation parameters while the power is on.
SLPC
⑥ Set the parameters in YSS1000.
② Turn the power off and remove the SLPC user ROM.
PC
③ Set the user ROM in a commercially available ROM writer.
A commercially available ROM writer
④ Create a binary file with the software supplied with the ROM writer.
⑤ Read and convert the binary file in YSS1000.

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